

Appendix table 6-16.

Human DNA sequence patents: Number of active assignees (not including individual inventors), by priority country and priority year: 1980–99

Priority country	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Total	9	17	36	51	90	107	127	140	145	200	218	230	279	306	356	411	445	505	688	242
United States	7	9	23	18	46	43	60	62	81	116	136	138	156	185	205	234	279	283	371	155
Japan	3	5	12	26	29	35	35	37	44	39	41	46	51	53	62	57	77	72	21	0
Great Britain	2	5	6	6	5	6	11	13	7	10	15	14	20	20	43	30	35	40	45	16
European Patent Office	0	0	0	3	0	1	4	5	4	8	3	4	10	5	9	18	21	26	44	7
Germany	0	0	1	2	2	3	3	4	1	5	8	9	12	12	8	19	13	19	27	9
France	0	0	0	1	1	5	3	4	9	6	8	8	5	10	12	17	13	15	21	5
Australia	0	0	1	2	2	6	4	3	0	0	3	5	3	3	5	10	11	9	21	7
Canada	0	0	0	0	20	0	0	0	0	5	1	2	0	3	3	3	1	8	13	1
China	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	5	12	8
Israel	0	0	0	1	1	1	0	0	2	2	0	0	1	2	5	4	2	1	10	2
Sweden	0	0	0	0	0	1	0	4	0	0	1	0	6	4	1	2	5	3	9	0
Denmark	0	0	0	0	0	6	0	3	2	2	1	1	3	3	1	0	1	4	6	2
Italy	0	0	0	0	0	0	0	0	1	0	2	2	13	3	3	1	0	2	4	1
South Korea	0	0	0	0	0	0	0	0	0	0	1	1	0	3	0	3	1	3	10	2
Netherlands	0	0	0	0	0	4	3	4	0	0	0	3	0	0	1	1	0	0	1	0
Russia	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	2	1	0	2
Austria	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	0	2	3	0
Belgium	0	0	0	2	4	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0
Soviet Union	0	0	0	4	1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0
Switzerland	0	0	0	0	0	2	0	1	1	1	0	0	0	0	0	0	0	1	1	0
New Zealand	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	2	2	1
Spain	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0
Czech Republic	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0
Patent Cooperation Treaty	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0
Ireland	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	2
Brazil	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	1	0	0	0
Finland	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
Norway	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
Argentina	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
India	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0
Cuba	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Honduras	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Mexico	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Romania	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Yugoslavia	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
South Africa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0

NOTES: Patents in a family are linked together through "priority" details. Priority is established by the original patent application date in the first country where the application is filed. Only companies, universities, nonprofit organizations, and government agencies are counted; individuals are not included. This table reflects the number of unique organizations that have filed patent applications, not the number of applications they have filed. Data for 1999 are most likely incomplete because of the 18-month lag between the date a patent application is filed and the date it is published. The European Patent Office (EPO) and the Patent Cooperation Treaty (PCT) represent two alternatives to filing multiple applications at individual patent country offices. For these two filing routes, an applicant makes an initial single filing at the responsible office (i.e., the European Patent Office for EPO applications and the World Intellectual Property Office (WIPO) for PCT applications). The applicant indicates the member countries in which it wishes to seek protection by listing the appropriate designated states on the application. In the past, applicants using these routes generally filed priority applications in their home country and then filed at the EPO and/or PCT. Increasingly, however, applicants are filing priority applications through these two venues, rather than through their home country. For this reason, the EPO or PCT shows as "priority country" in some tables.

SOURCE: *International Analysis of Human DNA Sequence Patenting*, submitted to the National Science Foundation by Moge Research and Analysis Associates (Reston, VA, April 10, 2001).

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